

STEROL  
PROFILE,  
SERUM/  
PLASMA

## Orderable – 7CHOL

Turn Around Time: 30 days

### Alternate Name(s):

7-Dehydrocholesterol

### Specimen:

4.5 mL Light Green top Vacutainer tube

### Collection Information:

Minimum volume required is 1 mL of serum.

Minimum volume required for pediatric sample is 0.2 mL.

Fasting specimen preferred. Protect specimen from light. Specimen must be labelled inside and outside light-protecting wrap.

### Reference Ranges:

STEROL PROFILE	REFERENCE INTERVAL	CLINICAL INDICATION
<b>Analyte</b>	<b>umol/L</b>	<b>(elevation)</b>
7-dehydrocholesterol	(0.3 - 2.2)	SLOS
8-dehydrocholesterol	(0.2 - 3.7)	SLOS
cholestanol	(0.0 - 8.6)	CTX
desmosterol	(0.5 - 6.7)	desmosterolosis
lanosterol	(0.0 - 0.7)	Antley-Bixler syndrome-1
lathosterol	(0.0 - 0.0)	lathosterolosis
sitosterol	(1.7 - 34.7)	sitosterolemia

**Notes:** Cholestanol is 5 $\alpha$ -cholestan-3 $\beta$ -ol. CTX is cerebrotendinous xanthomatosis. Lanosterol may be elevated in Antley-Bixler syndrome-1. Cholesterol biosynthesis disorders present with multiple congenital anomalies (most) or neurological symptoms with xanthomas (CTX). Sitosterol is elevated in sitosterolemia, which presents with xanthomas and accelerated atherosclerosis.



**Laboratory:**  
Core Lab



**Requisition:**  
GENERAL LABORATORY  
REQUISITION



**Method of Analysis:**  
Liquid Chromatography-  
Mass Spectrometry  
(LCMS)



**Test Schedule:**  
Referred out Monday-  
Thursday



**Referred Out Location:**  
[In-Common Laboratories](#)

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**Storage and Shipment:**

Send sample frozen and keep protected from light at all times.